












DeRev 54536 2du 12et Work Order ID 53873

November 23, 2009 8:09:10 AM

Page 1

Item ID:	D3215-3	Accept		Setup	Start	
Revision ID:	D				Stop	
Item Name:	Webbing Tidy					
Start Date:	23/11/2009	Start Qty: 20.00		Cust Item ID:		
Required Date:	27/11/2009	Req'd Qty: 20.00		Customer:		
Reference:						

Approvals:	Process Plan:		Date:	04/11-23	Tooling:		Date:		Run	Start	
	QC:		Date:		SPC (Y/N):		Date:			Stop	

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3215	Rev D								
100	FLOW WATER JET	0.00							
	Waterjet								
	Flow CNC Waterjet								
	Memo	0.00							
	1-Cut as per Dwg D3215 (D3215-3A)								
	Rev: <u>D</u> <input type="checkbox"/> 2-Deburr if necessary								
	<input type="checkbox"/> Dwg Rev: <u>D</u> <input type="checkbox"/> Prog								
	<input type="checkbox"/> 3-Identify as D3215-3A								
110	QC2- Inspect parts off machine FAI/FAIB	0.00							
	QC								
	Quality Control								
	Memo	0.00							
120	QC8- Inspect parts - second check	0.00							
	QC								
	Quality Control								
	Memo	0.00							

12 9-11-23

Ep 09/11/30/49

12 9-11-25

count
449

27 502/11/30

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 53873

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Page 2

Item ID:	D3215-3	Accept		Setup	Start	
Revision ID:	D				Stop	
Item Name:	Webbing Tidy					
Start Date:	23/11/2009	Start Qty:	20.00		Cust Item ID:	
Required Date:	27/11/2009	Req'd Qty:	20.00		Customer:	
Reference:						

Approvals:	Process Plan:	Date:	Tooling:	Date:	Run	Start	
	QC:	Date:	SPC (Y/N):	Date:		Stop	

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 	Small Fab	0.00							
Small Fab	Memo	0.00							
Small Fab	1-Cut D3215-3B (2.130" x 0.530") as per dwg D3215□2-Deburr□3-Identify as D3215-3B								
140 	QC5- Inspect part completeness to step on W/O	0.00							
QC	Memo	0.00							
Quality Control									
150 	NC BRAKE	0.00							
Brake NC	Memo	0.00							
Brake NC	Form D3215-3A as per Dwg D3215								

SB 09/12/02 (49)

SB 09/12/02

counters
(49) *φ*

SB 09/12/02

49 *φ*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 53873

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Page 3

Item ID:	D3215-3	Accept		Setup	Start	
Revision ID:	D				Stop	
Item Name:	Webbing Tidy					
Start Date:	23/11/2009	Start Qty:	20.00		Cust Item ID:	
Required Date:	27/11/2009	Req'd Qty:	20.00		Customer:	
Reference:						

Approvals:	Process Plan:	Date:	Tooling:	Date:	Run	Start	
	QC:	Date:	SPC (Y/N):	Date:		Stop	

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
160 QC Quality Control	QC5- Inspect part completeness to step on W/O Memo	0.00 0.00				<i>count</i> <i>499</i>	<i>4</i>		
170 Large Fab Large Fab	Large Fab Memo Weld D3215-3 by joining D3215-3A and D3215-3B as per Dwg D3215 and QSI 004 A/R AL ROD BATCH: <i>M111385</i> <input type="checkbox"/> Identify as D3215-3 <input type="checkbox"/> Grind flush	0.00 0.00							
180 QC Quality Control	QC9- Inspect visual per QSI004- Fusion Welds Memo	0.00 0.00							

SP 09-12-8. 49x

PD 09.12.08 49

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			




NOTE: Date & initial all entries

November 23, 2009 8:09:10 AM

Page 4

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____
QC: _____ **Date:** _____ **SPC (Y/N):** _____ **Date:** _____

Stop

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
190  QC Quality Control	QC5- Inspect part completeness to step on W/O Memo	0.00 0.00	27 09/12/08			counted 49	7		
200  HandFinish Hand Finishing	Chemical Conversion Coat per QSI005 4.1 Memo	0.00 0.00	41 09/12/09			counted 49	0		
210  Powdercoat Powder Coating	Black Sandtex(Ref:4.3.5.7) per QSI005 4.3 Memo START TIME: 1:20 320° FINISH TIME: 1:50	0.00 0.00	BR 09-12-10			counted 49			

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Abstract

Page 5

Accept

**Setup Start**

Stop

[illegible]**Cust Item ID:**

Start Date: 23/11/2009 **Start Qty:** 20.00

Required Date: 27/11/2009 **Req'd Qty:** 20.00

Customer:

Reference:

Run Start



Approvals: _____ **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Stop

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

**Insp.
Stamp**

0.00

[illegible]

QC

Memo

0.00

11 09/12/10

X49

00

Quality Control

0.00



Packaging

Packaging

Memo

0.00

CL 09/12/10

49

0.00


Abstract

QC

Memo

0.00

Quality Control

09/12/11 

09-12-11

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

November 23, 2009 8:09:19 AM

Page 1

Work Order ID: 53873

Parent Item: D3215-3RevD

Parent Item Name: Webbing Tidy

Comments:

Start Date: 23/11/2009

Required Date: 27/11/2009

Start Qty: 20.00

Required Qty: 20.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

M5052H32S.040

Purchased

No

100

sf

121.8000

0.1684



5052-H32 .040 Sheet

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

MAT

121.8

101875

8.125

102723

1

104921

6.5

106900

2

107513

4.5

109058

35.675

113123

64

M5052H32S.040

Purchased

No

130

sf

121.8000

0.5432



5052-H32 .040 Sheet

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

MAT

121.8

101875

8.125

102723

1

104921

6.5

106900

2

107513

4.5

109058

35.675

113123

64

2809/12/01

0.1684

1.3036

B9-11-05

(48)

104921

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART AEROSPACE LTD		Work Order:	53873
Description: Webbing Tidy		Part Number:	D3215-3A
Inspection Dwg: D3215	Rev: D	Page 1 of 1	

FIRST ARTICLE INSPECTION CHECKLIST

☒ First Article ☐ Prototype

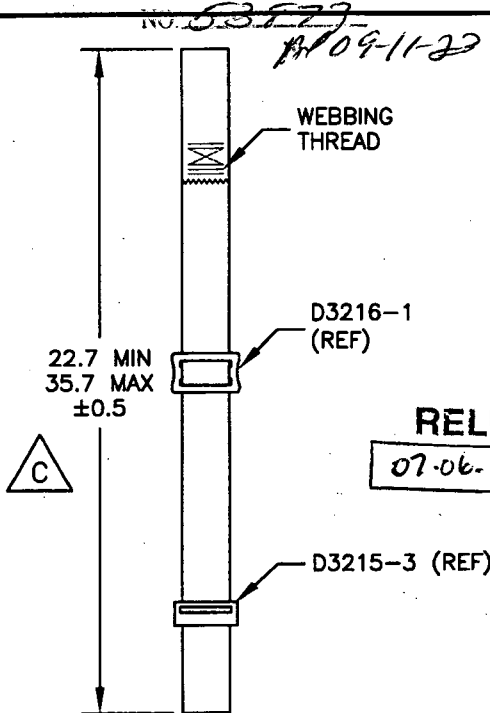
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1.92	+/-0.030	1.923	✓			
0.20	+/-0.030	.194	✓			
0.78	+/-0.030	.774	✓			
0.20	+/-0.030	.204	✓			
2.46	+/-0.030	2.461	✓			
0.57	+/-0.030	.568	✓			

Measured by: IB	Audited by: S	Prototype Approval:	N/A
Date: 9-11-25	Date: 09/11/30	Date:	N/A

Rev	Date	Change	Revised by	Approved
A	04.02.10	New Issue	KJ/RF	
B	06.03.15	Dwg Rev update	KJ/JLM	
C	07.10.24	Dimensions updated per Dwg Rev D	KJ/EC/DD	
D	08.09.10	0.53 dimension removed	KJ/DD	



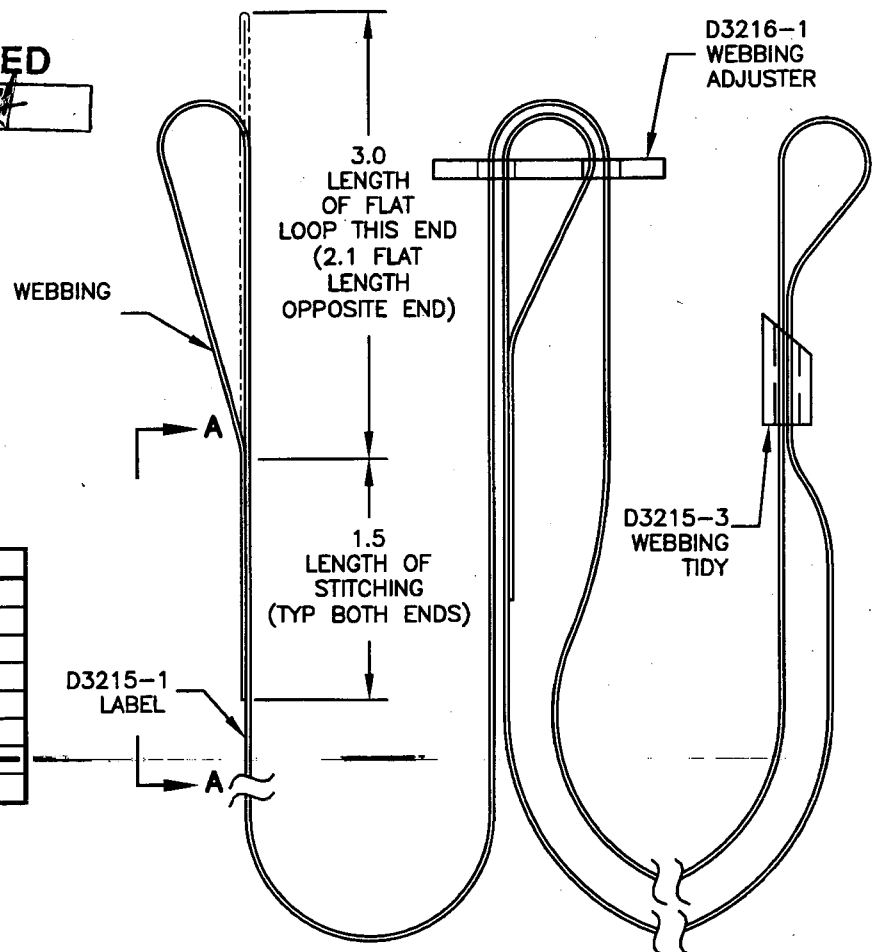
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CHECKED <i>CE</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3215	REV. D SHEET 1 OF 3
DATE 07.03.27	TITLE BELT ASSEMBLY		SCALE NTS
A	03.09.19	NEW ISSUE	
B	04.01.12	AS MANUFACTURED; ADD TOLERANCE	
C	04.03.05	REDUCE LENGTH; CLARIFY STITCHING	
D	07.03.27	ADD WEBBING SUPPLIER; ADD LABEL THREAD AND MATERIAL; IN VIEW A-A, 1.4 WAS 1.8; ADD -3A AND -3B; UPDATE TOLERANCES	



ASSEMBLY DETAIL
NOT TO SCALE

PARTS LIST:

QTY	P/N	DESCRIPTION
X	D3215-041	BELT ASSEMBLY
AS REQ'D	SEE NOTE 1	WEBBING
AS REQ'D	SEE NOTE 1	WEBBING THREAD
AS REQ'D	SEE NOTE 1	LABEL THREAD
1	D3215-1	LABEL
1	D3215-3	WEBBING TIDY
1	D3216-1	WEBBING ADJUSTER



D3215-041 BELT ASSEMBLY:

- MATERIAL: WEBBING = LAGRAN CANADA INC. 26472, 1.8 WIDE x 0.05 THICK BLACK POLYESTER WEBBING, CERTIFIED TO FAR 29.853A3, TENSILE STRENGTH 5700 lb MIN
OR BELT TECH CANADA INC. 27039, 1.8 WIDE x 0.05 THICK BLACK POLYESTER WEBBING, CERTIFIED TO FAR 29.853A3, TENSILE STRENGTH 6000 lb MIN
WEBBING THREAD = V-T-295 TYPE II CLASS A SIZE 3, BLACK NYLON THREAD
LABEL THREAD = V-T-295 TYPE II CLASS A SIZE F, BLACK NYLON THREAD
- ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- SEE SHEET 3 FOR VIEW A-A

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DART

DESIGN <i>GP</i>	DRAWN BY <i>CB</i>	W/O 53873 DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>CE</i>	APPROVED <i>#</i>	DRAWING NO. D3215	REV. D SHEET 2 OF 3
DATE 07.03.27	TITLE BELT ASSEMBLY		SCALE NTS

D3215-043 BELT ASSEMBLY:

1) MATERIAL:

WEBBING = LAGRAN CANADA INC. 26472, 1.8 WIDE
x 0.05 THICK BLACK POLYESTER WEBBING,
CERTIFIED TO FAR 29.853A3, TENSILE
STRENGTH 5700 lb MIN

OR BELT TECH CANADA INC. 27039, 1.8 WIDE
x 0.05 THICK BLACK POLYESTER WEBBING,
CERTIFIED TO FAR 29.853A3, TENSILE
STRENGTH 6000 lb MIN

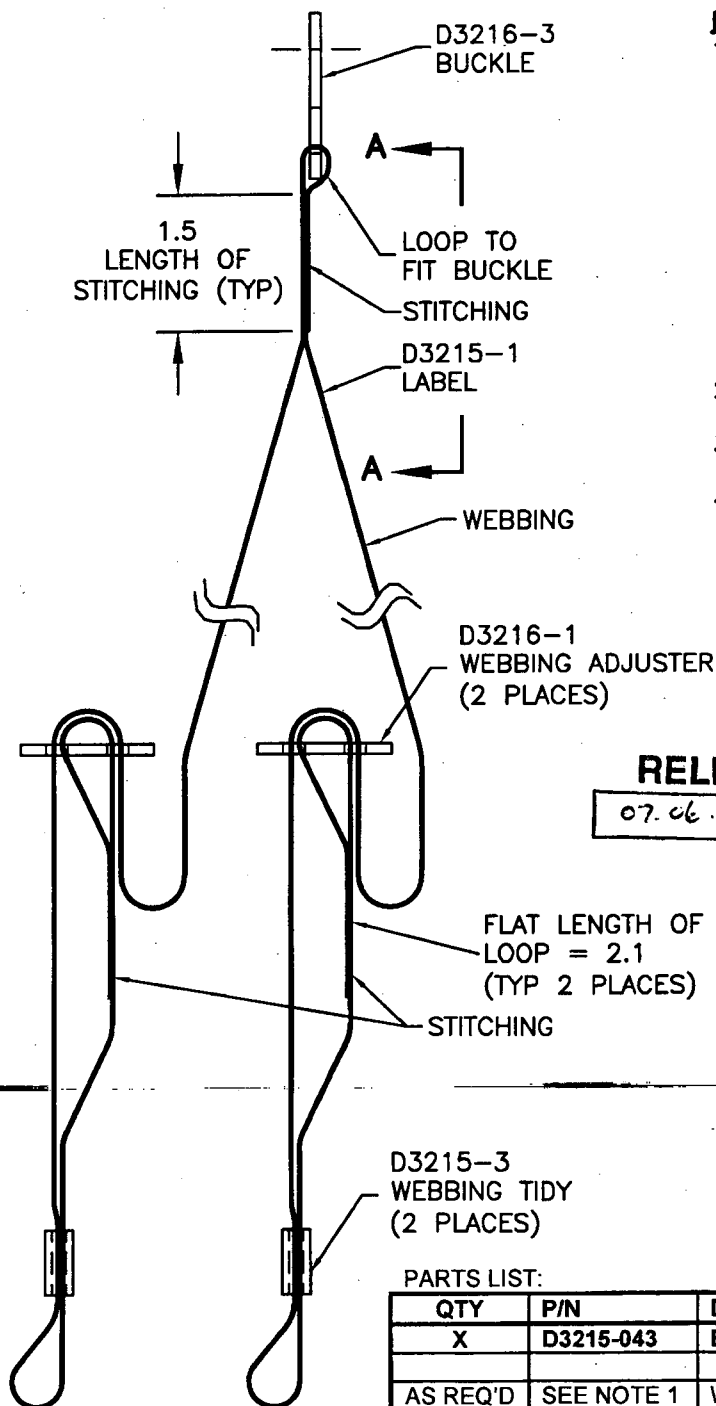
WEBBING THREAD = V-T-295 TYPE II CLASS A SIZE 3,
BLACK NYLON THREAD

LABEL THREAD = V-T-295 TYPE II CLASS A SIZE F,
BLACK NYLON THREAD

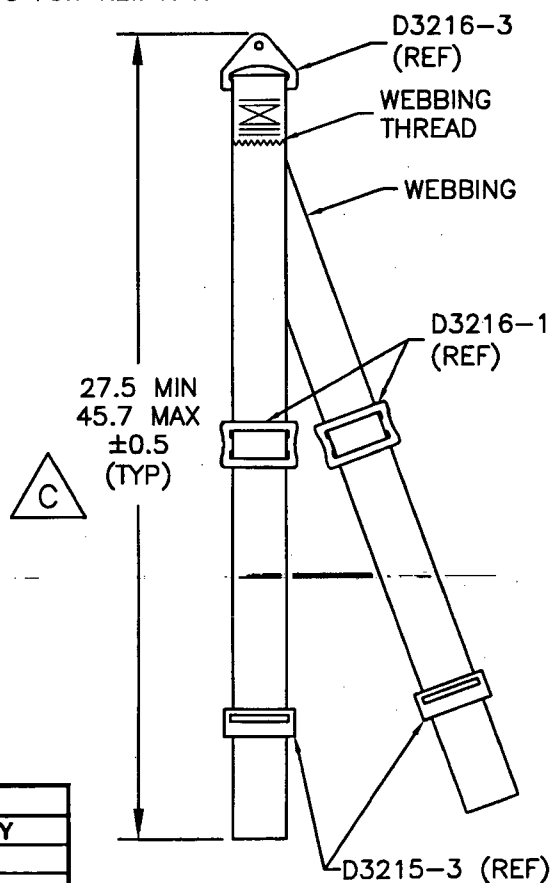
2) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE
NOTED.

3) TOLERANCES ARE PER DART QSI 018 UNLESS
OTHERWISE NOTED.

4) SEE SHEET 3 FOR VIEW A-A

**RELEASED**

07.06.07

**ASSEMBLY DETAIL**
NOT TO SCALE

PARTS LIST:

QTY	P/N	DESCRIPTION
X	D3215-043	BELT ASSEMBLY
AS REQ'D	SEE NOTE 1	WEBBING
AS REQ'D	SEE NOTE 1	WEBBING THREAD
AS REQ'D	SEE NOTE 1	LABEL THREAD
1	D3215-1	LABEL
2	D3215-3	WEBBING TIDY
2	D3216-1	WEBBING ADJUSTER

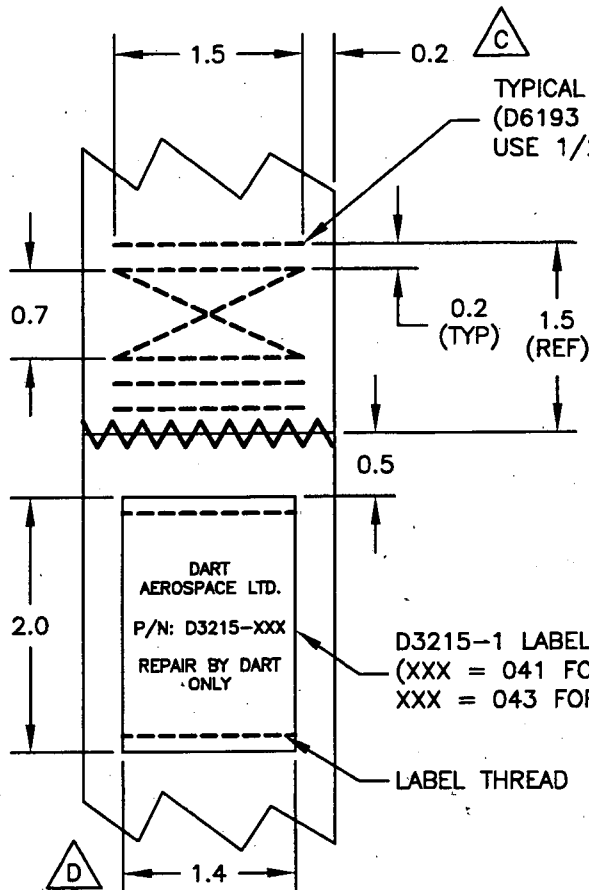
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DART

W/D 538731

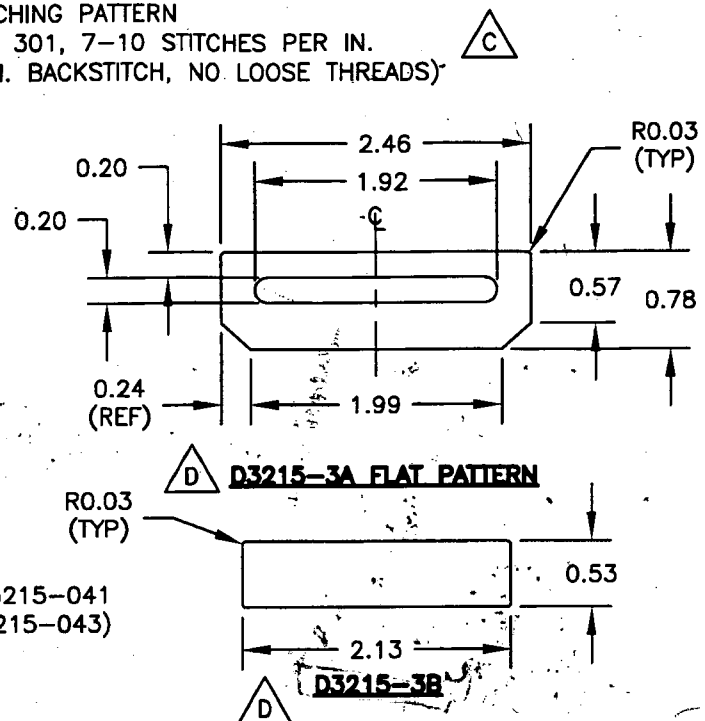
DESIGN <i>GP</i>	DRAWN BY <i>CB</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>CE</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3215	REV. D SHEET 3 OF 3
DATE 07.03.27	TITLE HARNESS ASSEMBLY		SCALE 3:2

**VIEW A-A****D3215-1 LABEL:**

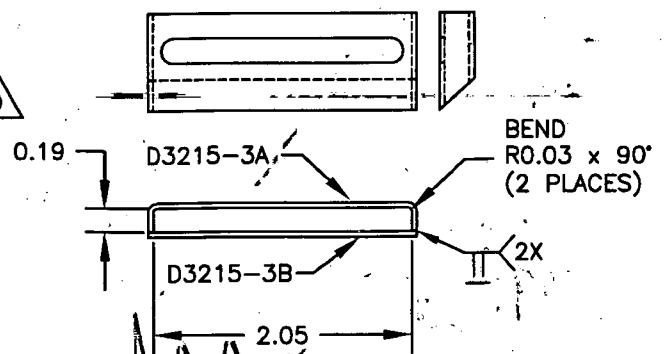
- 1) MATERIAL: WHITE TYVEK OR WHITE POLYESTER WHICH MEETS FMVSS 302
- 2) USE 1/8 BLACK LETTERING
- 3) CENTER ON BELT WIDTH

RELEASED07.06.07 *[Signature]***GENERAL NOTES:**

- 1) BREAK ALL SHARP EDGES 0.005 TO 0.010
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

**D3215-3A/-3B NOTES:**

- 1) MATERIAL: 5052-H32 ALUMINUM SHEET, 0.040 THICK PER QQ-A-250/8 OR AMS 4016 (REF DART SPEC. M5052H32S.040).
- 2) BEND D3215-3A PER D3215-3

**D3215-3 NOTES:**

- 1) WELD PER DART QSI 004
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 POWDER COAT BLACK SANDTEX (4.3.5.7) PER DART QSI 005 4.3

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